

admitting this, even in the face of our foot notes; yet still is it dignified? Will it benefit the Society? The first number of the Transactions comes to us, not as a simple collection of memoirs, but as a review. Of the justice or injustice of the review let our readers judge; that is not a point on which an interested party like ourselves ought to decide.

Two words on the Colloquia Entomologica: *first*, a magazine is only responsible for opinions conveyed in articles avowedly editorial; *second*, the Colloquia Entomologica are neither really nor avowedly editorial, on the contrary, editorial remarks on them have frequently occurred.

ART. XLV.—*Monographia Chalciditum*. By FRANCIS WALKER.

(Continued from p. 369.)

“ ——— the green myriads in the peopled grass.”

§§ *Clava elongata, acuminata.*

Femora	}	-gracilia	PTEROMALUS.
		-valida	CHEIROPACHUS.

GENUS XIII.—PTEROMALUS,^a *Swederus*.

Corpus pilis sparsis hirtum: thorax posticè utrinque pilis albis hirtus: abdomen apice densè hirtum; segmenta ferè recta, 1^{um}. magnum, sequentia minora: oviductus rufus, abdomine occultum aut ejus apicem vix transiens; vaginæ nigrae, pubescentes: femora gracilia, non dilatata; fem. mesofemora subtus apices versus setigera.^b

The species are very numerous, and the forms of the antennæ and abdomens of the females are almost as various as the species, but correspondent variations are not so apparent in the males.

SECTIO I.—Mas et Fem.

Corpus angustum, sublineare, quasi squameum: caput mediocre, mari thorace paullò latius, fem. thoracis latitudine: mandibulæ

^a Πτερόν ala, μάλός tener.

^b The other characters of the genus are detailed under the sections.

subquadratae, dentibus minutis armatae 4; una extus recta, intus arcuata, dentes ferè obtusi; altera subarcuata, dentes paullò longiores et acutiores: maxillae longae, subarcuatae; apices s. laciniae angustae, acuminatae, lobatae; palpi 4-articulati, graciles, ferè filiiformes; articuli 1^{us}. 2^{us}. et 3^{us}. mediocres, aequales, cyathiformes; 4^{us}. elongato-fusiformis, apice pilosus, 3^o. plus duplò longior: labium perangustum, lineare, posticè conoideum; ligula parva, brevis, anticè ciliata; palpi 3-articulati, breves, crassi, articulus 2^{us}. brevissimus, 3^{us}. acuminatus: antennae graciles, subclavatae, *mari* corporis dimidio vix longiores, *fem.* paullò breviores et crassiores; articuli 5^o. ad 10^{um}. mediocres, sublineares, gradatim breviores, vix latiores; clava elongato-ovata, vix acuminata, articulo 10^o. plus duplò longior et paullò latior: thorax ovatus, minimè convexus: prothorax brevis: mesothoracis scutum, scutellum, paraptera et epimera magna; parapsidum suturae vix conspicuae: metathorax mediocris: abdomen subtilissimè squameum, ferè laeve, quasi excavatum, non compressum nec angulatum, subtus vix carinatum, *mari* sublineare basi angustius thoracis longitudine, *fem.* elongato-ovatum apice acuminatum thorace paullò longius; segmentum 1^{um}. magnum; sequentia breviora, subaequalia: oviductus abdominis apicem vix transiens: pedes seorsum graciles: alae angustae; nervus humeralis ulnari multò longior, ramulum rejiciens nullum; cubitalis radiali vix longior; stigma ramulum brevem emittens.

Sp. 1. Pter. cavus. Mas et Fem. *Viridi-æneus*, *mari antennis fulvis abdominis macula pedibusque flavis*, *fem. antennis nigris pedibus fuscis, alis albis*.

Mas.—Obscurè viridis: oculi ocellique rufo-fusci: os fuscum: antennae pallidè fulvae; articuli 2^{us}. 3^{us}. et 4^{us}. supra fusci: scutellum viridi-æneum: abdomen cupreo-æneum, basi viride, medium ante flavo maculatum; sexualia flava: pedes flavi; coxae æneo-virides; tarsi apice, ungues et pulvilli fusci: alae hyalinae, albæ; squamulae fuscae; nervi pallidè flavi; stigma minutum.

Fem.—Æneo-viridis: antennae nigrae; articulus 1^{us}. basi fuscus: thorax subtus cyaneo-viridis: abdomen cupreo-æneum, basi apiceque viridans: pedes fusci: coxae cyaneo-virides; femora obscurè fusca; tibiae apice, necnon meso- et metatarsi basi fulvae: alarum nervi pallidè fulvi. (Corp. long. $\frac{3}{4}$ — $1\frac{1}{2}$ lin.; alar. 1— $1\frac{3}{4}$ lin.)

Var. β.—*Mas*, antennae articulis 2^o. ad 4^{um}. vix fuscis.

Var. γ.—*Mas*, caput et thorax æneo-viridia.

Var. δ.—*Fem.* femora et metatibiae nigro-fusca.

Var. ε.—*Fem.* caput et metathorax viridia.

Var. ζ.—*Fem.* antennæ omninò nigræ: mesothorax æneus: femora et tibiæ nigro-fusca: genua et tarsi obscurè fusca: alæ ad costam fulvescentes; nervus humeralis apice et stigma pallidè fusca.

Var. η.—*Fem.* antennæ articulo 1^o. basi fulvo: alarum nervi flavi.

Var. θ.—*Fem.* antennæ omninò nigræ: propedum tibiæ apice, basi et subtus fulvæ; tarsi basi fulvi.

Reared from pupæ of *Pontia Brassicæ* in the month of May, by Mr. Davis. June and July; on grass beneath trees, and on decayed wood; near London. June; South of France.

Sp. 2. *Pter. decedens.* Mas et Fem. *P. cavò similis*, mari abdomen immaculatum; fem. antennæ crassiores.

Mas.—Obscurè viridis: oculi ocellique rufo-fusci: antennæ fuscae: scutellum viridi-æneum: abdomen cupro-æneum, basi viride: sexualia flava: pedes fusci; coxæ virides; genua et tibiæ apice flava; meso- et metatarsi flavi, apice fusci; profemora apice et protibiæ flava, hæ fusco fasciata: alæ hyaline, albæ; squamulæ fuscae; nervi pallidè flavi; stigma minutum.

Fem.—Æneo-viridis, parùm nitens: antennæ nigro-fuscae; articulus 1^{us}. fulvus, apice fuscus: abdomen cupreo-æneum; segmenta basi viridi-ænea: pedes fusci; coxæ virides; femora et tibiæ apice fulva; tarsi fulvi, basi flavi, apice fusci: alarum nervi pallidè fulvi. (Corp. long. $\frac{2}{3}$ — $1\frac{1}{4}$ lin.; alar. $\frac{3}{4}$ — $1\frac{1}{2}$ lin.)

Var. β.—*Mas*, meso- et metatarsi fusci, basi flavi.

Var. γ.—*Mas*, antennæ fulvæ; articuli 2^{us}. et 5^{us}. supra fusci: scutellum viride: pedes flavi; coxæ virides; femora supra fusco vittata; tarsi apice pallidè fusci.

Var. δ.—*Mas*, antennæ omninò fulvæ: caput et thorax æneo-viridia.

Var. ε.—*Mas*, *Var. γ.* similis: antennæ fulvæ; articuli 1^{us}. apice 2^{us}. que supra fusci: scutellum æneo-viride.

Var. ζ.—*Mas*, *Var. ε.* similis: antennæ flavæ, articulo 2^o. clavaque supra pallidè fuscis.

Var. η.—*Fem.* abdomen viridi-æneum, basi apice que viridans.

Var. θ.—*Fem.* protibiæ omninò fulvæ.

Var. ι.—*Fem.* caput viride: alarum nervi flavi.

Var. κ.—*Fem.* proalæ ad costam fulvescentes.

Var. λ.—*Fem.* antennæ articulo 1^o. fusco, basi fulvo.

May to September; on grass beneath trees; near London. September; Isle of Wight.

Sp. 3. Pter. perversus. Fem. *Viridi-æneus, antennis fulvis, basi pedibusque fuscis, alis albis.*

Æneo-viridis, parùm nitens: antennæ fulvæ, gracillimæ; articuli 1^{us}. et 2^{us}. obscurè fuscis: scutellum æneum: abdomen cupreo-æneum, basi viridans: pedes obscurè fuscis; coxæ æneo-virides; genua et tarsi fulva, hi apice fuscis: alæ hyalinæ, albæ; squamulæ fuscae; nervi pallidè flavi; stigma minutum. (Corp. long. $\frac{2}{3}$ lin.; alar. $\frac{3}{4}$ lin.)

August; on grass beneath trees; near London.

SECTIO II.—Fem.

Corpus breve, latum, quasi squameum: caput magnum, thorace vix latius: mandibulæ subquadratae, ferè rectæ, similes, intus paullò arcuatae; dentes sat magni, obtusi, subæquales: maxillæ longæ, subarcuatae; laciniae angustæ, acuminatae, lobatae; palpi 4-articulati, graciles, filiformes; articulus 1^{us}. mediocris; 2^{us}. paullò longior; 3^{us}. 1ⁱ. longitudine; 4^{us}. elongato-fusififormis, acuminatus, apice pilosus, 3^o. plus duplò longior: labium ovatum, posticè conoidem; ligula parva, brevis, antice ciliata subtus transversè lineata; palpi 3-articulati, breves, crassi; articulus 2^{us}. brevissimus; 3^{us}. acuminatus: antennæ validæ, clavatae, corporis dimidiò plus minusve longiores; articuli 5^o. ad 10^{um}. breves, lati, valde approximati, longitudine decrescentes; clava ovata, compacta, acuminata, articulo 10^o. duplò longior et paullò latior: thorax ovatus, convexus: prothorax brevissimus: mesothorax maximus; parapsidum suturæ vix conspicuæ: metathorax parvus: abdomen rotundum, planum, subtilissimè squameum, ferè læve, subtus convexus, thorace brevius; segmentum 1^{um}. magnum; sequentia breviora, subæqualia: oviductus abdominis apicem non transiens: alæ plerumque latæ; nervus humeralis ulnari multò longior, ramulum rejiciens nullum; cubitalis radiali non longior; stigma ramulum brevissimum emittens.

Sp. 4. Pter. patulus. Fem. *Viridi-æneus, antennis nigris, pedibus rufis, alis limpidis.*

Æneus, parùm nitens: caput æneo-viride: oculi ocellique obscurè fuscis: mandibulæ rufæ: maxillæ et labium nigro-viridia: laciniae flavæ: ligula albida: palpi fuscis: antennæ nigrae; articulus 1^{us}. lætè fulvus: thorax utrinque et subtus viridi-æneus: metathorax viridis: abdomen cupreo-æneum, basi lætè æneo-viride fulvescens: pedes rufi; coxæ virides; genua et tarsi flava, hi

apice fusci : alæ limpidæ ; squamulæ pallidè fuscæ ; nervi flavi ; stigma minutum. (Corp. long. $1\frac{1}{4}$ — $1\frac{1}{2}$ lin. ; alar. $1\frac{3}{4}$ —2 lin.)

August and September ; on windows near London ; North Devonshire ; Isle of Wight, &c.

Sp. 5. Pter. extentus. Fem. P. patulo *similis ; minor ; antennæ graciliores, nigro-fuscæ ; alæ subfulvescentes.*

Æneus : caput æneo-viride : oculi ocellique obscurè fusci : antennæ nigro-fuscæ ; articulus 1^{us}. rufus ; 2^{us}. et 3^{us}. fusci ; thorax subtus et utrinque æneo-viridis ; scutellum cupreo-æneum : abdomen cupreo-æneum, basi lætè æneo-viride : pedes pallidè rufi ; coxæ virides ; ungues et pulvilli fusci : alæ hyalinæ, albæ, sub costam fulvescentes ; squamulæ fulvæ ; nervi flavi ; stigma minimum. (Corp. long. 1 lin. ; alar. $1\frac{1}{2}$ lin.)

June ; New Forest, Hampshire.

Sp. 6. Pter. amplus. Fem. P. patuli *statura ; antennæ graciliores ; femora nigro-fusca ; alæ albæ.*

Æneo-viridis, parùm nitens : caput viride : antennæ nigræ ; articulus 1^{us}. rufus ; 2^{us}. viridis, apice fulvus : abdomen cupreo-æneum, basi lætè viridi-æneum : pedes fulvi ; coxæ virides ; femora nigro-fusca ; genua et tarsi flava, hi-apice fusci : alæ hyalinæ, albæ ; squamulæ et nervi pallidè fusca ; nervus humeralis fulvus ; stigma minutum. (Corp. long. $1\frac{1}{4}$ lin. ; alar. $1\frac{3}{4}$ lin.)

June ; Isle of Wight.

Sp. 7. Pter. catillus. Fem. P. patulo *paullò minor et angustior ; antennæ graciliores ; femora nigro-fusca ; alæ subfulvæ.*

Æneus, parùm nitens : caput viridi-æneum : oculi ocellique obscurè fusci : antennæ nigræ ; articulus 1^{us}. rufus ; 2^{us}. viridi-fuscus : thorax subtus, utrinque et posticè æneo-viridis : abdomen cupreo-æneum, basi lætè æneo-viride : pedes fulvi ; coxæ æneo-virides ; femora nigro-fusca ; tibiæ fuscæ, basi apice que fulvæ ; tarsi flavi, apice fusci ; protibiæ et protarsi omninò fulvæ : alæ subfulvæ ; squamulæ fuscæ ; nervi fulvi ; stigma minimum. (Corp. long. 1 — $1\frac{1}{4}$ lin. ; alar. $1\frac{1}{4}$ — $1\frac{1}{2}$ lin.)

Var. β .—Antennæ articulo 1^o. apice fusco.

September ; on grass beneath trees, near London ; North Devonshire.

Sp. 8. Pter. latus. Fem. *Præcedentibus omninò diversus; antennæ breviores; alæ longiores et latiores.*

Viridi-æneus: oculi ocellique obscurè fuscii: antennæ nigræ, subtus fuscæ; articulus 1^{us}. rufus: scutellum cupreo-æneum: metathorax viridis: abdomen cupreo-æneum, basi quasi contractum, apice viridi-æneum; segmentum 1^{um}. lætè viride, basi cupreo-æneum: pedes pallidè rufi; coxæ virides; femora et metatibiæ pallidè fusca, apice basique rufa; ungues et pulvilli fuscii: alæ hyalinæ, albæ; squamulæ et nervi pallidè fulva; stigma minutum. (Corp. long. $1\frac{1}{4}$ lin.; alar. $2\frac{1}{4}$ lin.)

May; near London.

Sp. 9. Pter. domesticus. Fem. P. patulo *simillimus; minor; pedes fuscii.*

Æneus: caput viridi-æneum: oculi ocellique obscurè fuscii: antennæ nigræ; articulus 1^{us}. lætè fulvus; 2^{us}. fuscus: thorax subtus, utrinque et posticè æneo-viridis: scutellum et abdomen cupreo-ænea: pedes fuscii; coxæ virides; femora viridi-fusca; tarsi flavi, apice fuscii; meso- et metatibiæ apice basique fulvæ; protibiæ et protarsi omninò fulva: alæ sublimpidæ; squamulæ fuscæ; nervi fulvi; stigma minutum. (Corp. long. $\frac{1}{2}$ — $\frac{4}{5}$ lin.; alar. $\frac{3}{4}$ — $1\frac{1}{5}$ lin.)

Var. β.—Thorax æneo-viridis; scutellum æneum.

Var. γ.—Antennæ articulo 1^o. apice fusco.

Var. δ.—Caput viride: thorax æneo-viridis: metathorax cyaneo-viridis: tibiæ omnes fulvæ.

Var. ε.—Thorax viridi-æneus: caput et metathorax viridia.

Var. ζ.—*Var. ε.* similis: tibiæ omnes fulvæ.

Var. η.—Antennæ articulo 1^o. fusco, basi et subtus fulvo.

Var. θ.—Thorax omninò æneus.

Var. ι.—Caput et thorax viridia.

On the windows and walls of houses in infinite numbers during July, and more sparingly throughout the rest of the year.

Sp. 10. Pter. sylvicola. Fem. *Viridi-æneus, antennis pedibusque rufis, alis limpidis.*

Æneus, parùm nitens: caput viridi-æneum: oculi ocellique obscurè fuscii: antennæ rufæ; articulus 2^{us}. supra pallidè fuscus: thorax utrinque, subtus et posticè viridi-æneus: abdomen cupreo-æneum,

basi lætè viridi-æneum : pedes pallidè rufi ; coxæ æneo-virides ; genua et tarsi flava ; ungues fuscæ : alæ limpidæ ; squamulæ fuscæ ; nervi fulvi ; stigma minimum. (Corp. long. $\frac{3}{5}$ — $\frac{3}{4}$ lin. ; alar. 1 — $1\frac{1}{4}$ lin.)

June ; grass beneath trees ; Windsor Forest and New Forest.

Sp. 11. Pter. discus. Fem. *Æneus, antennis fuscis, pedibus rufis, alis subfuscis disco obscuriore.*

Æneus, parùm nitens : oculi ocellique obscurè fuscæ : antennæ fuscæ ; articulus 1^{us}. rufus, apice fuscus : abdomen cupreo-æneum, basi apiceque lætè viridi-æneum : pedes rufi ; coxæ æneo-virides ; tarsi flavi, apice fuscæ ; protarsi rufi : alæ subfuscæ ; discus obscurè fuscus ; squamulæ et nervi fulva ; stigma minutum. (Corp. long. $\frac{3}{4}$ — $\frac{4}{5}$ lin. ; alar. $1\frac{1}{4}$ — $1\frac{1}{3}$ lin.)

Var. β.—Abdomen basi cupreo micans.

September ; Isle of Wight.

SECTIO III.—Fem.

Corpus squameum, ferè glabrum, plus minusve longum, plerumque angustum : caput mediocre, thoracis latitudine aut paullò latius : mandibulæ subquadratae, similes, extus ferè rectæ, intus arcuatae, dentibus 4 armatae ; dens 1^{us}. s. externus acutus, mediocris ; 2^{us}. et 3^{us}. breviores, minores ; 4^{us}. obtusus : maxillæ longæ, subarcuatae ; laciniae angustæ, acuminatae, lobatae ; palpi 4-articulati, graciles, filiformes ; articuli 1^{us}. et 2^{us}. æquales, mediocres ; 3^{us}. paullò brevior ; 4^{us}. 2^o. longior, acuminatus : labium longi-ovatum ; ligula brevis, lata, anticè ciliata ; palpi 3-articulati, breves, graciles, filiformes ; articulus 2^{us}. brevissimus, 3^{us}. acuminatus, 1ⁱ. longitudine : antennæ sat graciles, corporis dimidio nonnunquam longiores sed plerumque breviores, articulo 5^o. ad 10^{um}. gradatim crassiores et breviores ; clava longi-ovata, articulo 10^o. plus duplo longior sed non aut vix latior : thorax ovatus, convexus : prothorax minimus : mesothoracis scutum et scutellum maxima ; parapsidum suturæ vix conspicuæ ; paraptera et epimera magna : metathorax parvus : abdomen ovatum aut longi-ovatum, supra planum, subtus carinatum, non compressum nec subtus angulatum, thorace plerumque longius, apice acuminatum et nonnunquam attenuatum ; segmenta subæqualia ; 1^{um}. 5^{um}. et 6^{um}. reliquis paullò longiora : oviductus abdominis

apicem non aut vix transiens: alæ sat latæ; nervus humeralis ulnari multò longior, ramulum rejiciens nullum; cubitalis radiali paullò brevior; stigma ramulum brevissimum emittens.

Subdiv. 1^a.

Corpus angustum, elongatum: antennæ ejus dimidio multò breviores: abdomen longi-ovatum, thorace multò longius; apex attenuatus, alis otiosis non obtectus.

Sp. 12. Pter. gynotelus. Fem. *Viridis aut æneus, antennis nigris, pedibus flavis, alis sublimpidis.*

Lætè viridis, minimè æneo nitens: oculi ocellique obscurè rufi; articulus 1^{us}. obscurè fuscus, basi pallidè flavus: abdomen purpureum; segmenta 1^o. ad 5^{um}. basi lætè viridia: pedes flavi; coxæ virides; genua, meso- et metatarsi pallidè flava, hi apice nigro-fusci; protarsi apice fusci: alæ minimè fulvescentes, ferè limpidae; squamulæ et nervi pallidè flava, illæ anticè pallidè fusca; stigma fuscum, minutum. (Corp. long. $1\frac{1}{4}$ — $1\frac{1}{3}$ lin.; alar. $1\frac{1}{2}$ — $1\frac{2}{3}$ lin.)

Var. β.—Thoracis latera cupreo notata: abdominis segmenta purpurea, basi et utrinque lætè viridia; 1^{um}. lætè viride, cupreo varium.

Var. γ.—Cupreo-viridis: abdomen obscurè purpureum; segmenta basi viridi-cuprea, 1^{um}. lætè cupreo-viride.

Var. δ.—Scutellum cupreo-viride: abdominis segmentum 1^{um}. æneo-viride; sequentia basi lætè viridia: femora subfulva.

Var. ε.—*Var. δ.* similis; tibiæ subfulvæ.

Var. ζ.—Caput viridi-æneum: thorax æneo-cupreus; suturæ æneo-virides: abdominis segmentum 1^{um}. lætè cupreum; sequentia basi obscurè cuprea.

On laurels and box-trees, and in hay-stacks, &c. throughout the year; near London.

Subdiv. 2^a.

Corpus angustum, elongatum: antennæ ejus dimidio breviores: abdomen longi-ovatum, thorace longius, alis obtectum.

Sp. 13. Pter. bracteatus. Fem. *Cupreus aut æneo-viridis, antennis nigris, pedibus flavis, alis plus minusve fulvescentibus.*

Lætè cupreus: caput anticè thoracisque latera viridi-ænea: oculi obscurè fusci: antennæ nigræ; articulus 1^{us}. nigro-viridis, basi

ad medium albidum: abdomen purpureum; segmentum 1^{um}. lætè cupreum; sequentia basi et utrinque æneo-cuprea: oviductus abdominis apicem paullò superans: pedes flavi; coxæ æneo-virides; genua, meso- et metatarsi pallidè flava, hi apice fusci; protarsi apice fulvi: alæ parùm fulvescentes; squamulæ et nervi flava, illæ anticè fuscæ; stigma fuscum, minutum. (Corp. long. 1—1½ lin.; alar. 1¼—1⅔ lin.)

Var. β.—Abdominis segmentum 1^{um}. cupreo-viride; sequentia basi cuprea.

Var. γ.—Caput et thorax viridi-cuprea: antennæ articulo 1^o. basi flavo: femora, meso- et metatibiæ fulva: alæ vix fulvescentes.

Var. δ.—*Var. γ.* similis: scutellum cupreum: abdomen lætè purpureo-cupreum; segmentum 1^{um}. viride, basi cupreum.

Var. ε.—Æneo-viridis: antennæ articulo 1^o. basi flavo: abdominis discus purpureus: alæ vix fulvescentes.

Spring and autumn; on laurels; near London. June; Isle of Wight.

Sp. 14. Pter. herbidus. Fem. *Viridis aut æneo-viridis, P. bracteato similis, abdomine latiore, antennis nigris, pedibus flavis, alis limpidis.*

Lætè viridis: oculi obscurè rufi: antennæ nigræ, corporis dimidio multò breviores; articulus 1^{us}. flavus, apice fuscus: prothorax cupreo-viridis: abdomen lætè æneo-viride; segmentum 1^{um}. viride, cupreo varium; sequentia apice purpurea: pedes flavi; coxæ virides; genua, meso- et metatarsi pallidè flava, hi apice fusci; protarsi apice fulvi: alæ limpidæ; squamulæ et nervi flava, illæ anticè fulvæ; stigma fulvum, minutum. (Corp. long. ⅔—1¼ lin.; alar. 1—1⅔ lin.)

Var. β.—Antennæ articulo 1^o. nigro, basi pallidè flavo: prothorax viridis: abdominis segmentum 1^{um}. omninò viride: stigma fuscum.

Var. γ.—*Var. β.* similis: abdominis segmentum 1^{um}. cupreo-viride.

Var. δ.—Antennæ articulo 1^o. nigro, basi flavo: thorax æneo-viridis; mesothoracis scutellum cupreo-æneum.

August; near London.

Sp. 15. Pter. lucidus. Fem. *Cupreo aut æneo-viridis, P. bracteato aut herbido paullò latior, antennis nigris, pedibus fulvis, alis sublimpidis, stigmatè majore obscuriore.*

Cupreo-viridis: oculi obscurè rufi: antennæ nigræ; articulus 1^{us}. flavus, apice fuscus: abdomen viridi-æneum; discus cupreo-

purpureus: pedes fulvi; coxæ æneo-virides; genua, meso- et metarsi pallidè flava, hi apice fusci; protarsi pallidè fulvi, apice saturatiores: alæ ferè limpidae, sub costam minimè fulvescentes; squamulæ et nervi flava, illæ anticè fuscae; stigma fuscum, parvum. (Corp. long. $1\frac{1}{4}$ lin.; alar. $1\frac{1}{2}$ lin.)

Var. β. — Æneo-viridis: abdominis segmenta posticè purpurea: propedum tibiæ tarsique flava, hi apice fulvi.

Var. γ. — Antennæ fuscae; articulus 1^{us}. basi flavus.

Autumn; on laurels; near London.

Sp. 16. Pter. aspilus. Fem. *Cupreo-æneus, præcedentibus propter stigma vix conspicuum diversus, necnon P. bracteato alis latioribus, P. herbido et lucido abdomine angustiore discrepans, antennis fuscis, pedibus fulvis, alis subfulvis.*

Cupreo-æneus, nitens: caput posticè thoracisque segmentorum suturæ æneo-iridia, illum thoracis latitudine: oculi obscurè rufi: antennæ fuscae; articulus 1^{us}. fulvus: abdomen cupreo-viride, longum, angustum, apice cupreo-æneum attenuatum; segmenta 1^o. ad 4^{um}. apice purpurea: pedes fulvi; coxæ æneo-virides; meso- et metatarsi flavi, apice fusci: alæ subfulvæ; squamulæ et nervi flava, illæ anticè fuscae; stigma minimum, vix conspicuum. (Corp. long. $1\frac{1}{2}$ lin.; alar. $1\frac{2}{3}$ lin.)

October; on flowers of the ivy; near London.

Sp. 17. Pter. flammiger. Fem. *Rubro-cupreus, præcedentibus gracilior, antennis nigris, pedibus fulvis, alis quàm P. bracteato angustioribus.*

Rubro-cupreus, longus, angustus: caput cupreum, thorace vix latius, posticè æneo-iride: oculi obscurè rufi: antennæ nigrae; articulus 1^{us}. flavus, apice nigro-fuscus: abdomen cupreum, nitens, thorace multò longius; discus purpureus; segmentum 1^{um}. basi utrinque viride: pedes pallidè fulvi; coxæ æneo-virides; meso- et metapedum genua et tarsi flava, hi apice fusci: alæ subfulvæ; squamulæ et nervi fulva, illæ anticè fuscae; stigma pallidè fuscum, minutum. (Corp. long. $1\frac{1}{4}$ lin.; alar. $1\frac{1}{2}$ lin.)

Var. β. — Cupreus: caput supra rubro-cupreum, posticè cupreo-iride: abdominis segmenta posticè purpurea.

October; on flowers of the ivy; near London.

Sp. 18. Pter. conspersus. Fem. *Cupreus aut viridi-cupreus, antennis nigris, pedibus fulvis, alis fusco maculatis.*

Cupreus, nitens: caput parvum, breve, thoracis latitudine, anticè viride: oculi obscurè rufi: antennæ nigræ, graciles, corporis dimidio vix breviores; articulus 1^{us}. fulvus: thorax brevis, ferè lævis; prothorax viridi-cupreus: abdomen non attenuatum; discus obscurè purpureus; segmentum 1^{um}. lætè viride, cupreo micans, posticè purpureum: pedes fulvi; coxæ æneo-virides; femora et tibiæ basi supra pallidè fusca; genua, meso- et metatarsi flava, hi apice fulvi: proalæ subfuscæ; maculæ 4 in cujusque disco magnæ diffusæ fuscæ; squamulæ et nervi fulva; illæ anticè fuscæ; nervus cubitalis quàm cæteris plerisque hujus generis longior; stigma pallidè fuscum, minimum. (Corp. long. $1\frac{1}{4}$ — $1\frac{1}{2}$ lin.; alar. $1\frac{1}{2}$ — $1\frac{3}{4}$ lin.)

Var. β.—Femora et tibiæ omninò fulva.

Var. γ.—Abdomen cupreo-viride; discus purpureus.

Var. δ.—Viridi-cupreus: abdomen viride; discus purpureus: alarum maculæ ferè aut omninò obsoletæ.

May and August; on windows; near London. It resembles *Cleonymus* in some particulars.

Sp. 19. Pter. oxygyne. Fem. *Æneo-viridis, capite quàm præcedentibus majore, antennis nigris, pedibus flavis, alis limpidis.*

Lætè æneo-viridis, nitens, longus: caput thorace paullò latius: oculi obscurè rufi: antennæ nigræ; articulus 1^{us}. fulvus, apice fuscus: abdomen lætè viride, angustum, attenuatum; discus purpureus: pedes saturatè flavi; coxæ virides; femora et protarsi fulva; meso- et metatarsi apice fuscii: alæ limpidæ; squamulæ et nervi fulva, illæ anticè fuscæ; stigma minutum. (Corp. long. $1\frac{1}{2}$ lin.; alar. $1\frac{3}{4}$ lin.)

Var. β.—Caput et thorax viridia: meso- et metapedum tibiæ apice tarsique pallidè flava, hi apice fuscii.

July; near London.

Sp. 20. Pter. megachlorus. Fem. *Viridis, antennis nigris, pedibus fuscis, femoribus viridibus, alis griseo-hyalinis.*

Viridis, nitens: caput thorace latius: oculi obscurè rufi: antennæ nigræ; articulus 1^{us}. nigro-viridis: thoracis discus æneo-viridis: abdominis segmentum 1^{um}. basi cyaneo-viride; sequentia posticè

cuprea: pedes fuscī; coxæ et femora viridia; meso- et metapedum tibiæ apice et basi tarsique pallidè flava; hi ad apices fuscī; progenua et protarsi subtus fulva: alæ griseo-limpidæ; squamulæ et nervi fusca, illæ anticè virides; stigma obscurius, magnum. (Corp. long. $1\frac{1}{2}$ lin.; alar. $2\frac{1}{4}$ lin.)

Found near London.

Subdiv. 3^a.

Corpus angustum, elongatum; antennæ ejus dimidii longitudine: abdomen longi-ovatum, thorace vix longius.

Sp. 21. Pter. grandis. Fem. *Viridis, antennis fuscis, pedibus flavis, alis limpidis.*

Lætè viridis, nitens: caput thorace paullò latius: oculi rufi: antennæ fusca, graciles, ferè filiformes; articulus 1^{us}. pallidè fulvus, apice supra fuscus: prothorax mesothoracisque latera æneo-viridia: abdomen viridi-cupreum, thorace paullò angustius; discus purpureus; segmentum 1^{um}. cupreo-viride micans: pedes lætè flavi; coxæ virides; femora fulvæ; metatibiæ basi cingulata fulvo; tarsi apice fuscī; protibiæ et protarsi pallidè fulva, hi apice fuscī: alæ albo-limpidæ; squamulæ et nervi flava, illæ anticè nigræ, stigma fuscum, minutum. (Corp. long. $1\frac{1}{4}$ — $1\frac{1}{2}$ lin.; alar. $1\frac{3}{4}$ — $2\frac{1}{4}$ lin.)

Var. β.—Thorax supra æneo-viridis.

September; near London. Isle of Wight.

Sp. 22. Pter. aurifer. Fem. *Aureo-viridis, antennis nigris, pedibus flavis, alis limpidis.*

Lætè aureo-viridis: caput viride: oculi obscurè rufi: antennæ nigræ, longæ; articulus 1^{us}. flavus, apice nigro-fuscus: abdominis discus purpureus; segmentum 1^{um}. cupreum, viridi micans: pedes lætè flavi; coxæ æneo-virides; femora fulva; meso- et metatarsi pallidè flavi, apice nigri; protarsi apice fulvi: alæ limpidissimæ; squamulæ et nervi flava, illæ anticè fusca; stigma fuscum, minutum. (Corp. long. $1\frac{1}{2}$ lin.; alar. 2 lin.)

Found near London.

Subdiv. 4^a.—Fem.

Fem. — Corpus mediocre, vix elongatum: antennæ ejus dimidio breviores: abdomen ovatum, thorace paullò longius.

Mas.—(*P. tenuis.*) Corpus breve: caput thorace paullo latius: antennæ subfiliformes, corporis dimidio longiores; articulus 1^{us}. validus subfusiformis; 5^{us}. et sequentes ad 10^{um}. gradatim breviores, non latiores; clava longi-ovata acuminata, articulo 10^o. plus duplo longior et paullo latior: thorax ovatus: abdomen ovatum thoracis longitudine.

Sp. 23. Pter. robustus. Fem. *Cupreo-æneus, crassus, antennis nigris, pedibus fulvis, alis sublimpidis parvis.*

Æneus, parùm nitens, crassus: oculi obscure fuscii: antennæ nigræ, validæ; articulus 1^{us}. flavus, apice niger: thorax anticè et posticè cupreo-æneus: abdomen lætè viridi-cupreum; discus obscure purpureus; segmentum apicale chalybeum, paullo attenuatum: pedes fulvi; coxæ æneo-virides; femora fusca; meso- et metatarsi pallidè flavi, apice nigri; protarsi flavi, apice fuscii: alæ breves, ferè limpidæ; squamulæ et nervi flava, illæ anticè fuscæ; stigma obscure fuscum, mediocre. (Corp. long. $1\frac{1}{3}$ — $1\frac{1}{2}$ lin.; alar. $1\frac{2}{5}$ — $1\frac{3}{4}$ lin.)

Found near London.

Sp. 24. Pter. nubilus. Fem. *Cupreo-æneus, P. robusto gracilior, antennis nigris, pedibus fulvis, alis subfuscis disco obscuriore.*

Cupreo-æneus, parùm nitens: oculi obscure fuscii: antennæ nigræ, validæ; articulus 1^{us}. flavus, apice fulvus: abdomen lætè viridicupreum; discus et apex obscure purpurei, hic attenuatus: pedes fulvi; coxæ æneo-virides; femora fusca; genua et protarsi flava, hi apice fulvi; meso- et metatarsi pallidè flavi, apice nigro-fuscii: alæ subfuscæ; macula in cujusque disco diffusa fusca; squamulæ et nervi flava, illæ anticè fuscæ; stigma mediocre, fuscum. (Corp. long. $\frac{4}{5}$ — $1\frac{1}{4}$ lin.; alar. $1\frac{1}{4}$ — $1\frac{2}{5}$ lin.)

Var. β.—Thoracis discus purpureo-cupreus.

Var. γ.—Viridi-æneus: abdomen viride, basi cupreo micans; discus et apex obscure purpurei: femora obscure fusca; meso- et metatarsi apice fuscii.

March; on laurels; near London. September; Isle of Wight.

Sp. 25. Pter. perfectus. Fem. *Obscurè cupreus, P. nubili statura, antennis nigris, pedibus fulvis, alis sublimpidis.*

Obscurè cupreus, vix nitens: oculi obscure fuscii: antennæ nigræ, validæ; articulus 1^{us}. basi fulvus: abdomen lætè viridicupreum;

discus et apex purpurei, hic paullò attenuatus: pedes fulvi; coxæ æneo-virides; meso- et metapedum genua et tarsi pallidè flava, hi apice nigri: alæ ferè limpidæ; squamulæ et nervi pallidè fusca, illæ anticè virides; stigma obscurè fuscum, mediocre. (Corp. long. $1\frac{1}{4}$ lin.; alar. $1\frac{1}{2}$ lin.)

September; Isle of Wight.

Sp. 26. Pter. apertus. Fem. *Æneo-viridis cupreo varius*, P. perfecti *statura stigmatè minore, antennis nigris, pedibus fulvis, alis limpidis*.

Æneo-viridis, nitens: caput thorace paullò latius: oculi obscurè rufi: antennæ nigræ; articulus 1^{us}. viridis, basi fulvus: mesothoracis scutellum et metathorax cupreo-ænea: abdomen cupreo-viride; segmentum 1^{um}. nitentius; discus purpureus: pedes fulvi; coxæ virides; femora nisi ad apices fusca; meso- et metapedum genua, tibiæ apice tarsique flava, hi apice fuscii: alæ limpidæ; squamulæ et nervi pallidè fulva, illæ anticè nigræ; stigma fuscum, parvum. (Corp. long. $1\frac{1}{3}$ lin.; alar. $1\frac{2}{3}$ lin.)

June; Isle of Wight.

Sp. 27. Pter. dives. Fem. *Cupreo-æneus*, P. perfecti *statura, antennæ graciliores nigræ, pedes pallidè fulvi, alæ subfulvæ*.

Cupreo-æneus, nitens: caput æneo-viride: oculi obscurè rufo-fusci: antennæ nigræ, graciles; articulus 1^{us}. basi flavus: abdominis segmenta posticè purpurea, nonnulla viridi nitentia; apex obscurè purpureus, non attenuatus: pedes pallidè fulvi; coxæ æneo-virides; genua et tarsi pallidè flava, hi apice fuscii; propedum genua tibiæ et tarsi flava, hi apice fulvi: alæ ferè limpidæ, minimè fulvescentes; squamulæ et nervi pallidè flava, illæ anticè fusca; stigma fuscum, parvum. (Corp. long. $1\frac{1}{4}$ lin.; alar. $1\frac{1}{2}$ lin.)

Found near London.

Sp. 28. Pter. cuprinus. Fem. *Cupreus, præcedentibus minor et brevior, antennis nigris, pedibus fulvis, alis subfulvis*.

Cupreus, parùm nitens: caput æneo-viride: oculi obscurè fuscii: antennæ nigræ; articulus 1^{us}. flavus, apice fuscus: abdomen lætè cupreo-viride, basi angustum, apice non attenuatum; segmenta apice purpurea: pedes pallidè fulvi; coxæ æneo-virides; genua,

meso- et metatarsi pallidè flava, hi apice fusci; protarsi apice fulvi: alæ ferè limpidæ, minimè fulvescentes; squamulæ et nervi pallidè flava, illæ anticè fuscæ; stigma fuscum, parvum. (Corp. long. $\frac{4}{5}$ lin.; alar. $1\frac{1}{6}$ lin.)

Found near London.

Sp. 29. Pter. obtusus. Fem. *Viridi-æneus*, P. cuprino latior, antennis nigris, pedibus fulvis, alis limpidis.

Viridi-æneus: caput posticè viride: oculi obscurè rufi: antennæ nigræ; articulus 1^{us}. flavus, apice fuscus: abdomen lætè viride, apice non attenuatum; discus purpureus; segmentum 1^{um}. viridicupreum: pedes pallidè fulvi; coxæ æneo-virides; genua, meso- et metatarsi flava, hi apice fusci: alæ limpidæ, latae, apice obtusæ; squamulæ et nervi pallidè flava, illæ anticè fuscæ; stigma fuscum, parvum. (Corp. long. 1 lin.; alar. $1\frac{1}{4}$ lin.)

Found near London.

Sp. 30. Pter. curtus. Fem. *Viridis*, præcedentibus brevior, antennis nigris, pedibus fulvis, alis limpidis.

Viridis, brevis, latus: oculi obscurè rufi: antennæ nigræ; articulus 1^{us}. flavus, apice nigro-fuscus: abdomen lætè viride, apice non attenuatum; segmentum 1^{um}. apice cupreum; sequentia apice purpurea: pedes fulvi; coxæ virides; meso- et metapedum genua et tarsi pallidè flava, hi apice nigri; protarsi flavi, apice fusci: alæ limpidæ, latae, apice obtusæ; squamulæ et nervi pallidè flava, illæ anticè fuscæ; stigma fuscum, parvum. (Corp. long. $\frac{4}{5}$ lin.; alar. $1\frac{1}{2}$ lin.)

September; Isle of Wight.

Sp. 31. Pter. pinguis. Fem. *Cupreus*. P. curto adhuc latior, antennis nigris, pedibus fulvis, alis limpidis.

Obscurè cupreus, latus, brevis, parùm nitens: caput viride, thorace vix latius: oculi obscurè rufi: antennæ nigræ, corporis dimidio vix breviores; articulus 1^{us}. flavus, apice fulvus: abdomen æneocupreum, nitens, thorace paullò longius; discus obscurè purpureus: pedes fulvi; coxæ æneo-virides; meso- et metapedum genua et tarsi pallidè flava, hi apice fusci: alæ limpidæ; squamulæ et nervi pallidè fulva, illæ anticè fuscæ; stigma pallidè fuscum, minutum. (Corp. long. 1 lin.; alar. $1\frac{1}{2}$ lin.)

September; near Exeter, Devonshire.

Sp. 32. Pter. chalceus. Fem. *Cupreus aut cupreo-viridis, præcedentibus gracilior, antennis nigris, pedibus pallidè fulvis, alis minimè fulvis.*

Cupreus, nitens: oculi obscurè rufo-fusci: antennæ nigræ, graciles; articulus 1^{us}. basi flavus: abdominis segmenta anticè cupreo-viridia, posticè purpurea; apex vix attenuatus: pedes pallidè fulvi; coxæ æneo-virides; genua et tarsi pallidè flava, hi apice fusci; propedum genua tibiæ et tarsi flava, hi apice fulvi: alæ ferè limpidæ, minimè fulvescentes; squamulæ et nervi pallidè flava, illæ anticè fuscæ; stigma fuscum, parvum. (Corp. long. $1\frac{1}{4}$ lin.; alar. $1\frac{2}{3}$ lin.)

Var. β.—Cupreo-viridis: caput æneo-viride: thoracis segmentorum suturæ virides: abdominis apex obscurè purpureus.

Found near London.

Sp. 33. Pter. brevicornis. Fem. *P. chalceo similis, capite minore, antennis brevioribus.*

Cupreus, nitens: caput parvum, anticè viride: oculi obscurè rufi: antennæ nigræ, breves; articulus 1^{us}. pallidè flavus, apice obscurè fuscus: abdomen lætè viridi-cupreum; discus et apex purpurei, hic vix attenuatus: pedes flavi; coxæ æneo-virides; femora pallidè fulva; genua, meso- et metatarsi pallidè flava, hi apice fusci; protarsi apice fulvi: alæ ferè limpidæ, minimè fulvescentes, apice obtusæ; squamulæ et nervi flava, illæ anticè fuscæ; stigma fuscum, parvum. (Corp. long. $1\frac{1}{6}$ — $1\frac{1}{4}$ lin.; alar. $1\frac{1}{3}$ — $1\frac{1}{2}$ lin.)

Var. β.—Thorax cupreo-viridis: abdominis segmentum 1^{um}. lætè viride, cupreo micans; sequentia lætè cuprea: meso- et metatibiæ pallidè fulvæ.

Var. γ.—Thorax viridi-æneus: caput viride, posticè æneo-viride: antennæ articulo 1^o. nigro, basi fulvo.

Found near London; New Lanark, Scotland.

Sp. 34. Pter. despectus. Fem. *Viridis, P. chalcei statura, abdomini fasciis purpureis, antennis nigris, pedibus flavis, alis limpidis.*

Lætè viridis, nitens: caput thorace vix latius: oculi obscurè rufi: antennæ nigræ; articulus 1^{us}. flavus, apice nigro-fuscus: abdomen cupreo-viride; segmenta posticè purpureo fasciata, fasciæ in disco marginem anticum attingentes: pedes lætè flavi; coxæ virides: femora, protibiæ et protarsi fulva; meso- et metapedum tibiæ

fulvo cingulatæ; tarsi apice nigro-fusci: alæ limpidæ; squamulæ et nervi fulva, illæ anticè fusæ; stigma fuscum, minutum. (Corp. long. $1\frac{1}{4}$ lin.; alar. $1\frac{2}{3}$ lin.)

July; near London.

Sp. 35. Pter. affinis. Fem. *Cupreo-viridis*, P. despecto *similis*, at *minor et brevior*, *antennis nigris*, *pedibus fulvis*, *alis sublimpidis*.

Cupreo-*viridis*, parùm nitens: caput thorace paullò latius: oculi obscurè rufi: antennæ nigræ; articulus 1^{us}. basi flavus: abdomen viride, nitens; segmenta posticè purpurea: pedes fulvi; coxæ æneo-*virides*; genua, meso- et metatarsi flava, hi apice fusci: alæ vix fuscescentes, ferè limpidæ; squamulæ et nervi flava, hi anticè fusci; stigma parvum, fuscum. (Corp. long. $\frac{3}{4}$ —1 lin.; alar. $1\frac{1}{4}$ — $1\frac{1}{5}$ lin.)

Found near London.

Sp. 36. Pter. fumipennis. Fem. *Viridis aut viridi-æneus*, P. nubilo *minor et brevior*, *antennis nigris*, *pedibus fulvis*, *alis subfuscis disco obscuriore*.

Æneo-*viridis*, parùm nitens, angustus, præcedentis statura at minor: caput thorace paullò latius: oculi obscurè rufi: antennæ nigræ, corporis dimidio vix breviores; articulus 1^{us}. basi fulvus: abdomen viridi-æneum, nitens, angustum; discus purpureus: pedes pallidè fulvi; coxæ æneo-*virides*; meso- et metatarsi flavi, apice fusci; protarsi apice saturatè fulvi: alæ subfusæ; macula in cujusque disco maxima diffusa fusca; squamulæ et nervi fulva; stigma minutum. (Corp. long. $\frac{3}{4}$ —1 lin.; alar. 1— $1\frac{1}{4}$ lin.)

Var. β .—Caput et thorax viridia.

Var. γ .—Caput et thorax viridi-ænea: antennæ articulo 1^o. fulvo, apice fusco.

Winter; in haystacks; Spring; on laurels; near London.

Sp. 37. Pter. redactus. Fem. *Viridis aut viridi-æneus*, *præcedentis statura et magnitudine*, *antennis nigris*, *pedibus fulvis*, *alis subfuscis*.

Æneo-*viridis*, parùm nitens: caput thorace vix latius: oculi obscurè rufi: antennæ nigræ, corporis dimidio vix breviores; articulus 1^{us}. fulvus, apice nigro-fuscus; abdomen nitens, angustum; discus obscurè purpureus: pedes pallidè fulvi; coxæ æneo-*virides*,

protarsi apice saturatè fulvi ; meso- et metatarsi flavi, apice fusci : alæ subfuscæ ; squamulæ et nervi fulva ; stigma obscurius, minutum. (Corp. long. $\frac{2}{5}$ — $\frac{3}{4}$ lin. ; alar $\frac{4}{5}$ —1 lin.)

Var. β.—Caput et thorax viridia.

Var. γ.—Viridi-æneus : antennæ articulo 1^o. nigro-fusco, basi fulvo : abdominis discus obscurè purpureus.

Var. δ.—Antennæ articulo 1^o. flavo, apice fusco.

September ; Lyme Regis, Dorsetshire ; Penzance, Cornwall ; Linton, North Devonshire.

Sp. 38. Pter. epistenus. Fem. *Æneus, thorace angusto distinctus, abdomine viridi fasciato, antennis nigris, pedibus fuscis, alis fulvis aut limpidis.*

Æneus, parùm nitens, præcedentibus abdomine brevior distinctus : caput æneo-viride, thorace vix latius : oculi obscurè rufi : antennæ nigræ, breves, validæ ; articulus 1^{us}. flavus, apice fuscus : thorax angustus, abdomine vix brevior : abdomen æneo-purpureum, nitens, thorace multo latius ; segmenta basi viridia : pedes fusci ; coxæ æneo-virides ; femora æneo-fusca ; meso- et metapedum genua et tarsi flava, hi apice fusci ; protarsi fulvi : alæ angustæ, subfulvæ, ad costam saturatiores ; squamulæ et nervi fulva, illæ anticè fuscæ ; stigma fuscum, parvum. (Corp. long. $1\frac{1}{6}$ — $1\frac{1}{4}$ lin. ; alar. $1\frac{1}{4}$ — $1\frac{1}{5}$ lin.)

Var. β.—Abdominis segmentum 1^{um}. lætè viride, apice æneo-purpureum.

Var. γ.—Caput et thorax æneo-iridia : antennæ articulo 1^o. omninò flavo : alæ limpidæ.

Found near London. June ; Windsor Forest.

Sp. 39. Pter. purpureus. Fem. *Purpureus, abdomine æneo-iridi, antennis fuscis, pedibus flavis, alis limpidis.*

Purpureus, parùm nitens : caput æneo-cupreum, thorace paullo latius, anticè viride : oculi obscurè rufi : antennæ obscurè fuscæ ; articulus 1^{us}. flavus : thorax angustus, abdomine vix brevior : abdomen æneo-iride, angustum ; discus obscurè purpureus : pedes flavi ; coxæ æneo-irides ; pro- et mesopedum femora et tibiæ fulva ; meso- et metatarsi apice fusci : alæ limpidæ ; squamulæ et nervi pallidè flava ; stigma minimum. (Corp. long. $1\frac{1}{6}$ lin. ; alar. $1\frac{1}{5}$ lin.)

Found near London.

Sp. 40. Pter. semifascia. Fem. *Viridi-æneus, antennis fulvis, pedibus fuscis, alis fusco ad stigma maculatis.*

Viridi-æneus, parùm nitens : caput viride, thorace vix latius : oculi obscurè rufi : antennæ fulvæ ; articulus 1^{us}. pallidior : abdomen basi nitentius ; discus obscurè purpureus : pedes fuscii ; coxæ et femora viridia ; meso- et metapedum tibiæ apice tarsique flava, hi apice fuscii ; protarsi fulvi : alæ sublimpidæ, ad cujusque stigma macula fusca in discum producta ; squamulæ et nervi fulva, illæ anticè viridi-fuscæ ; stigma pallidè fuscum, parvum. (Corp. long. $\frac{3}{4}$ lin. ; alar. $1\frac{1}{2}$ lin.)

June ; Windsor Forest.

Sp. 41. Pter. venustus. Fem. *Viridi-cyaneus, antennis pedibusque fuscis, alis griseis.*

Viridi-cyaneus, brevis, latus : caput thorace vix latius : oculi obscurè rufi : antennæ fuscæ ; articulus 1^{us}. fulvus : abdomen æneo-viride, basi nitentius ; discus obscurè purpureus : pedes fuscii ; coxæ cyaneo-virides ; genua fulva ; tibiæ apice tarsique pallidè flava, hi apice fuscii ; protarsi supra pallidè fulvi : alæ griseæ ; discus obscurior ; squamulæ et nervi fusca, illæ anticè cyaneo-fuscæ ; stigma obscurè fuscum, mediocre. (Corp. long. $1\frac{1}{4}$ lin. ; alar. $1\frac{3}{4}$ lin.)

Var. β.—Caput et thorax cyaneo-viridia : abdomen basi viridicupreum : protibiæ et protarsi fulva, illæ supra pallidè fuscæ.

July ; near London.

Sp. 42. Pter. anticus. Fem. *Cupreo-viridis, antennis fulvis apice fuscis, pedibus fulvis, alis limpidis.*

Cupreo-viridis, parùm nitens : caput viride, thorace paullò latius : oculi obscurè rufi : antennæ fulvæ ; articuli 3^{us}. et 4^{us}. flavi ; 2^{us}., 11^{us}., 12^{us}. et 13^{us}. fuscii : abdomen viridicupreum, nitens ; discus purpureus : pedes fulvi ; coxæ æneo-virides ; meso- et metapedum genua, tibiæ apice et tarsi pallidè flava, hi apice fuscii ; propedum genua, tibiæ et tarsi flava : alæ limpidæ ; squamulæ et nervi pallidè fulva ; stigma fuscum, parvum. (Corp. long. $1\frac{1}{4}$ lin. ; alar. $1\frac{1}{2}$ lin.)

Found near London.

Sp. 43. Pter. varius. Fem. *Viridi-æneus, antennis pedibusque fuscis, femoribus viridibus, alis subfulvis.*

Viridi-æneus : caput thorace vix latius : oculi fuscii : antennæ fuscæ, graciles ; articulus 1^{us}. fulvus : abdomen viridicupreum, acumina-

tum, vix attenuatum, basi lætè viride; discus obscurè purpureus: oviductus rufus: pedes fuscii; coxæ et femora viridia; tibiæ apice tarsique pallidè fulva, hi apice fuscii: alæ subfulvæ, ad costam saturatiores; squamulæ et nervi fulva, illæ anticè viridifuscæ; stigma fuscum, parvum. (Corp. long. $\frac{3}{4}$ — $1\frac{1}{6}$ lin.; alar. 1 — $1\frac{1}{2}$ lin.)

Var. β.—Abdomen purpureum; segmentum 1^{um}. lætè viride, apice cupreo-purpureum; sequentia basi utrinque viridia.

Var. γ.—Abdominis segmentum 1^{um}. cyaneo-viride, cupreo varium. June; New Forest.

Sp. 44. Pter. rufinus. Fem. *Æneo-cupreus, antennis fuscis, pedibus rufis, alis fulvis.*

Æneo-cupreus, parùm nitens: caput æneo-viride, thorace vix latius: oculi obscurè fuscii: antennæ fuscæ; articulus 1^{us}. fulvus, apice nigro-fuscus: abdomen cupreum, basi nitentius; discus obscurè purpureus: pedes rufi; coxæ virides; meso- et metatarsi flavi: apice fuscii: alæ saturatè fulvæ, basi apice et posticè dilutiones; squamulæ et nervi fulva, illæ anticè fuscæ; stigma pallidè fuscum, parvum. (Corp. long. $\frac{2}{3}$ lin.; alar. 1 lin.)

June; Isle of Wight.

Sp. 45. Pter. sequester. Fem. *Cupreo-æneus, viridi varius, antennis pedibusque fuscis, femoribus viridibus, alis limpidis.*

Cupreo-æneus, parum nitens: caput viride, thoracis latitudine. oculi obscurè rufi: antennæ obscurè fuscæ, graciles; articulus 1^{us}. fulvus: metathorax viridis: abdomen cupreo-purpureum, nitens; segmentum 1^{um}. lætè viride, apice cupreo-purpureum; sequentia basi utrinque viridia: pedes fuscii; coxæ et femora viridia; genua, protibiæ et protarsi fulva; meso- et metapedum tibiæ apice tarsique flava, hi apice fuscii: alæ limpidæ; squamulæ et nervi fulva, illæ anticè virides; stigma parvum, fuscum. (Corp. long. 1 — $1\frac{1}{4}$ lin.; alar. $1\frac{1}{2}$ — $1\frac{3}{4}$ lin.)

Var. β.—Antennæ articulo 1^o. apice fusco.

April; near London. September; Linton, North Devonshire.

Sp. 46. Pter. saturatus. Fem. *Aureo-viridis, antennis fuscis, abdomine cupreo-viride, pedibus fulvis, alis subfulvis.*

Lætè aureo-viridis, angustus: caput thorace paullò latius: oculi obscurè rufi: antennæ obscurè fuscæ; articulus 1^{us}. fulvus:

abdomen cupreo-viride, nitens, thorace angustius et paullò longius; segmenta posticè cupreo-purpurea: pedes pallidè fulvi; coxæ æneo-virides; tarsi flavi, apice fusci: alæ subfuscae, ad costam saturatiores; squamulæ et nervi fulva, illæ anticè fuscae; stigma pallidè fuscum, minutum. (Corp. long. $1\frac{1}{4}$ lin.; alar. 2 lin.)

Found near London.

Sp. 47. Pter. futilis. Fem. *Viridi-æneus, antennis fuscis, pedibus fulvis, alis subfuscis.*

Viridis: caput thorace vix latius: oculi obscurè rufi: antennæ obscurè fuscae; articulus 1^{us}. basi flavus: abdomen viridi-æneum, nitens, thorace paullò longius; discus obscurè purpureus: pedes fulvi; coxæ virides; genua necnon meso- et metapedum tarsi basi pallidè flava: alæ subfuscae; squamulæ et nervi fulva, illæ anticè fuscae; stigma pallidè fuscum, parvum. (Corp. long. $\frac{4}{5}$ lin.; alar. $1\frac{1}{4}$ lin.)

New Lanark, Scotland.

Sp. 48. Pter. decorus. Fem. *Viridi-cupreus, P. sequestri similis, antennis crassioribus nigro-fuscis, abdomine viridi nitente, pedibus fulvis, alis sublimpidis.*

Viridi-cupreus, parùm nitens: caput posticè viride: oculi obscurè fusci: antennæ nigro-fuscae; articulus 1^{us}. pallidè fulvus, apice fuscus: abdomen cupreo-viride, nitens; discus purpureus: pedes fulvi; coxæ æneo-virides; meso- et metapedum tibiæ tarsique pallidè flava, hi apice fusci, illæ fulvo cingulatae; alæ ferè limpidæ, parùm fulvescentes; squamulæ et nervi flava, illæ anticè fuscae; stigma fuscum, parvum. (Corp. long. $1-1\frac{1}{4}$ lin.; alar. $1\frac{1}{4}-1\frac{1}{2}$ lin.)

Var. β .—Tibiæ omnes fulvæ.

Var. γ .—Caput posticè æneo-viride.

Var. δ .—Abdomen lætè viride; segmentum 1^{um}. cupreo et cyaneo micans; sequentium margines postici purpurei, utrinque cuprei.

October; on laurels; near London. New Lanark, Scotland.

Sp. 49. Pter. famulus. Fem. *Viridis aut viridi-æneus, P. decoro similis at paullò brevior, antennis nigro-fuscis, pedibus flavis, femoribus fuscis, alis sublimpidis.*

Viridi-æneus: caput posticè viride: oculi obscurè rufi: antennæ nigro-fuscae; articulus 1^{us}. flavus, apice fuscus: abdomen cupreo-viride, nitens; discus purpureus: pedes flavi; coxæ æneo-virides; femora fusca; meso- et metapedum genua et tarsi pallidè flava;

hi apice nigro-fusci; protarsi fulvi: alæ limpidæ, sub costam minimè flavescentes; squamulæ et nervi flava, illæ anticè fuscæ; stigma fuscum, minutum. (Corp. long $1\frac{1}{4}$ lin.; alar. $1\frac{1}{2}$ lin.)

Var. β.—Caput et thorax viridia: antennæ articulo 1^o. nigro-fusco, basi flavo.

October; on laurels; near London.

Sp. 50. Pter. perpetuus. Fem. *Viridis aut æneo-viridis, P. famulo simillimus sed angustior, antennis fuscis aut nigro-fuscis, pedibus flavis, femoribus fulvis, alis limpidis.*

Æneo-viridis: oculi obscurè rufi: antennæ fuscæ; articulus 1^{us}. flavus, apice fuscus: abdomen nitens; discus purpureus: pedes flavi; coxæ æneo-virides; femora fulva, apice flava; meso- et metapedum genua et tarsi pallidè flava, hi apice fusci; protarsi pallidè fulvi: alæ limpidæ; squamulæ et nervi flava, illæ anticè fuscæ; stigma fuscum, minutum. (Corp. long. $\frac{2}{3}$ —1 lin.; alar. $\frac{3}{4}$ — $1\frac{1}{3}$ lin.)

Var. β.—Viridis: abdominis discus purpureus.

Var. γ.—Caput viride: mesothoracis scutellum cupreo-æneum: abdomen viridi-æneum; discus purpureus.

Var. δ.—Caput viride: thoracis discus cupreo-æneus.

Var. ε.—Tibiæ fulvo cingulatæ.

Var. ζ.—Antennæ articulo 1^o. nigro-fusco, basi flavo.

Var. η.—Antennæ nigro-fuscæ.

Var. θ.—*Var. ζ.* similis: abdomen basi viridi-cupreum: femora basi fusca.

Var. ι.—Femora et protarsi flava, hi apice fusci.

Var. κ.—Abdomen viride, basi cyaneo-viride; discus purpureus.

Common near London, on the lauristinus, the box, the cypress, &c. throughout the year.

Sp. 51. Pter. viridulus. Fem. *Viridis, P. perpetuo similis sed angustior et plerumque minor, antennis fuscis, pedibus flavis, alis limpidis.*

Lætè viridis: oculi obscurè rufi: antennæ fuscæ; articulus 1^{us}. flavus, apice fuscus: abdomen cupreo nitens; discus purpureus: pedes flavi; coxæ virides; genua, meso- et metatarsi pallidè flava, hi apice fusci; protarsi apice fulvi: alæ limpidæ; squamulæ et

nervi flava, illæ anticè fuscæ; stigma pallidè fuscum, minutum.
(Corp. long. $\frac{2}{5}$ — $\frac{4}{5}$ lin.; alar. $\frac{4}{5}$ — $1\frac{1}{4}$ lin.)

Var. β.—Thoracis discus æneo-viridis: femora fulva; tibiæ fulvo cingulatæ.

Var. γ.—Femora basi fulva; meso- et metatarsi apice nigro-fusci.

Var. δ.—Cyaneo-viridis: abdominis discus cupreo-purpureus.

Found with the preceding species; August; on windows, &c.

Sp. 52. Pter. tenuis. Mas. *Æneo-viridis, antennis flavis fusco cingulatis et terminatis, abdomine flavo fasciato, pedibus flavis, alis sublimpidis.* Fem. *P. viridulo longior et angustior, antennis fuscis, abdomine immaculato, pedibus fulvis.*

Mas.—Æneo-viridis: oculi obscurè rufi: antennæ fulvo-flavæ; articulus 1^{us}. basi flavus, apice supra fuscus; 2^{us}. supra basi, 5^{us}. 6^{us}. et 7^{us}. omninò, 8^{us}. basi, 10^{us}. et sequentes fusci: abdomen viride, ante medium latè flavo fasciatum; discus cupreus: pedes flavi; coxæ virides; tarsi apice pallidè fusci; protibiæ et protarsi fulva: alæ ferè limpidæ, minimè fulvescentes; squamulæ et nervi flava, illæ anticè fuscæ; stigma pallidè fuscum, minutum.

Fem.—Antennæ obscurè fuscæ; articulus 1^{us}. basi flavus: abdomen viridi-æneum, apice paullò attenuatum; discus purpurascens: pedes fulvi; coxæ æneo-virides; genua, meso- et metatarsi flava, hi apice fusci; protarsi pallidè fulvi, apice saturatiores. (Corp. long. $\frac{1}{5}$ — $\frac{2}{5}$ lin.; alar. $\frac{1}{2}$ —1 lin.)

Var. β.—*Mas* et *Fem.* caput et thorax viridia.

Var. γ.—*Mas*, antennæ articulis 1^o. et 8^o. omninò fulvo-flavis.

Var. δ.—*Mas*, antennæ articulis 1^o., 9^o. et 10^o. flavis.

Var. ε.—*Mas*, mesotibiæ apice basique necnon metatibiæ basi fulvæ.

Var. ζ.—*Fem.* antennæ pallidiores; articulus 1^{us}. nigro-fuscus, basi flavus: abdomen æneo-viride; discus purpureus: tibiæ pallidè fulvæ.

Var. η.—*Fem.* abdomen basi utrinque cupreum.

Var. θ.—*Fem.* caput et thorax viridi-ænea.

In the spring, summer, and autumn; on laurels, lime trees, windows, &c.; near London. September; Isle of Wight, Isle of Portland.

Sp. 53. Pter. pexatus. Fem. *Viridis, antennis fuscis, scutello cyaneo, pedibus flavis, alis sublimpidis.*

Viridis, *P. perpetuo* simillimus, alæ angustiores : caput thorace vix latius : oculi obscure rufi : antennæ fuscæ, subtus flavæ ; articulus 1^{us}. flavus, apice fuscus : mesothoracis epimera, paraptera et scutellum cyanea ; metathorax æneo-viridis : abdomen viridi-æneum ; discus obscure purpureus ; segmentum 1^{um}. lætè cupreo-viride : pedes flavi ; coxæ virides ; meso- et metatarsi pallidè flavi ; tarsi omnes apice fulvi : alæ ferè limpida, minimè fulvescentes ; squamulæ et nervi flava, illæ anticè fuscæ ; stigma minimum. (Corp. long. $\frac{4}{5}$ lin. ; alar. $1\frac{1}{4}$ lin.)

Found near London.

Sp. 54. Pter. inops. Fem. *Viridi-æneus, P. perpetuo similis, antennis nigro-fuscis, pedibus fulvis, mesofemoribus pallidè fuscis, alis sublimpidis.*

Viridi-æneus, brevis : caput thorace paullò latius : oculi obscure rufi : antennæ nigro-fuscæ ; articulus 1^{us}. niger, basi flavus : abdomen æneo-viride, thorace paullò longius, basi cupreo-varium : pedes fulvi ; coxæ æneo-virides ; meso- et metapedum genua, tibiæ apice tarsique flava, hi apice fusci ; mesofemora pallidè fusca : alæ ferè limpida, minimè fulvescentes ; squamulæ et nervi pallidè flava, illæ anticè obscuriores ; stigma fulvum, minimum. (Corp. long. $\frac{5}{4}$ lin. ; alar. 1 lin.)

September ; Lyme Regis, Dorsetshire.

Sp. 55. Pter. detritus. Fem. *P. viriduli statura, antennæ graciliores, abdomen latius.*

Æneus, obscurus, *P. innoto* longior, *P. viridulo* thorace brevior distinctus : caput thorace paullò latius : oculi obscure fusci : antennæ nigro-fuscæ ; articulus 1^{us}. niger, basi fulvus : abdomen cupreum, nitens, basi et utrinque viride, apice paullò attenuatum : pedes fulvi ; coxæ æneo-virides ; meso- et metatarsi flavi, apice fusci : alæ parùm fulvescentes ; squamulæ et nervi fulva ; stigma minutum. (Corp. long. $\frac{3}{4}$ lin. ; alar. 1 lin.)

September ; Lyme Regis, Dorsetshire.

Sp. 56. Pter. inscitus. Fem. *Purpurco-cupreus, præcedentibus propter antennas breviores discretus, abdominis segmentis basi viridibus, antennis pedibusque fuscis, alis subfulvis.*

Obscurè cupreus, parùm nitens : caput thorace vix latius : oculi obscure rufi : antennæ fuscæ, graciles, corporis triente non lon-

giores; articulus 1^{us}. fulvus: thoracis discus cupreo-purpureus. abdomen lætè viride, apice paullò attenuatum; segmenta posticè cupreo-purpurea: pedes pallidè fusci; coxæ æneo-virides; femora viridia, basi apiceque fulva; meso- et metapedum genua et tarsi pallidè flava, hi apice fusci; propedum tibiæ tarsique fulva: alæ subfulvæ, ad costam saturatiores; squamulæ et nervi flava, illæ anticè fuscæ; stigma fuscum, parvum. (Corp. long. $1\frac{1}{4}$ — $1\frac{1}{2}$ lin.; alar. $1\frac{1}{2}$ — $1\frac{3}{4}$ lin.)

Var. β.—Abdominis segmenta viridi-ænea, posticè cupreo-purpurea.

Var. γ.—Caput et thorax cupreo-ænea.

Var. δ.—Caput viridi-æneum.

Found near London.

Sp. 57. Pter. tristis. Fem. *Viridi-cupreus*, P. inscito *brevior, antennis femoribusque fuscis, pedibus flavis aut fulvis, alis sublimpidis.*

Viridi-cupreus, parùm nitens: oculi obscurè rufi: antennæ fuscæ, graciles; articulus 1^{us}. flavus: abdomen æneo-viride, nitens; discus purpureus: pedes flavi; coxæ æneo-virides; femora fusca, apice flava; meso- et metapedum genua et tarsi pallidè flava, hi apice fusci: alæ ferè limpidæ, minimè fulvescentes; squamulæ et nervi flava; stigma pallidè fulvum, minutum. (Corp. long. $1\frac{1}{4}$ — $1\frac{1}{2}$ lin.; alar. $1\frac{1}{2}$ — $1\frac{3}{4}$ lin.)

Var. β.—Tibiæ et protarsi fulva.

Var. γ.—Viridi-æneus: abdominis segmentum 1^{um}. lætè viride, apice cupreo-purpureum; sequentia apice purpurea.

Var. δ.—Meso- et metatibiæ fusco cingulatæ.

Var. ε.—Abdomen viride; segmenta posticè purpurea.

Found near London.

Sp. 58. Pter. microcerus. Fem. *Cupreo-viridis*, P. inscito *simillimus sed augustior, antennis pedibusque fuscis, femoribus viridibus, alis limpidis.*

Cupreo-viridis, parùm nitens: caput thorace paullò latius: oculi obscurè fusci: antennæ fuscæ, graciles, corporis triente vix longiores; articulus 1^{us}. fulvus, 2^{us}. viridi-fuscus: abdomen cupreo-viride; segmenta posticè cupreo-purpurea: pedes pallidè fusci; coxæ et femora viridia; hæ apice flava; meso- et metapedum

tibiæ apice tarsique flava, hi apice fusci; protibiæ et protarsi subtus fulva: alæ limpidæ; squamulæ et nervi fulva, illæ anticè fuscæ; stigma pallidè fuscum, parvum. (Corp. long. $1\frac{1}{4}$ lin.; alar. $1\frac{1}{2}$ lin.)

Var. β.—Meso- et metatibiæ obscurè fuscæ.

June; New Forest, Hampshire.

Subdiv. 5^a. Fem.

Corpus mediocre, non elongatum: antennæ ejus dimidio longiores: abdomen ovatum, thorace non aut vix longius.

Sp. 59. Pter. repandus. Fem. *Viridis, antennis fuscis, pedibus flavis, alis limpidis.*

Viridis: caput thorace latius: oculi obscurè rufi: antennæ fuscæ, graciles; articulus 1^{us}. flavus: thorax brevis: abdomen nitens, parvum, thorace vix longius; discus obscurè purpureus: pedes lætè flavi; coxæ virides; genua, meso- et metatarsi pallidè flava, hi apice fusci: alæ limpidissimæ; squamulæ et nervi pallidè flava, illæ anticè fulvæ; stigma fulvum, minutum. (Corp. long. $\frac{3}{4}$ lin.; alar. $1\frac{1}{4}$ lin.)

Var. β.—Æneo-viridis: abdomen cyaneo-viride; discus purpureus: meso- et metatarsi apice fulvi.

Var. γ.—*Var. β.* similis: abdomen viride; discus purpureus: stigma flavum.

Found near London.

Sp. 60. Pter. latifrons. Fem. *Viridis, antennis nigris, pedibus fuscis, alis limpidis.*

Obscurè viridis, parùm nitens: caput thorace paullò latius: palpi fusci: oculi obscurè rufi: antennæ nigræ, crassæ; articulus 1^{us}. flavus, apice fuscus: abdomen cupreo-viride, thoracis longitudine, angustum; discus obscurè purpureus: pedes fusci; coxæ æneo-virides; tibiæ pallidè fuscæ, apice basique flavæ; protibiæ, genua, meso- et metatarsi flava, hi apice fusci; protarsi fulvi: alæ limpidæ; squamulæ et nervi flava, illæ anticè fuscæ; stigma fuscum, parvum. (Corp. long. 1 lin.; alar. $1\frac{1}{4}$ lin.)

Found near London.

Sp. 61. Pter. quadrinota. Fem. *Cupreo-viridis, antennis nigris, pedibus fulvis, alis fusco bimaculatis.*

Cupreo-viridis, brevis, obscurus: caput thorace paullò latius: oculi obscurè fusci: antennæ nigræ; articulus 1^{us}. fulvus apice fuscus:

thorax brevis, convexus: abdomen purpureo-cupreum, nitens, thoracis longitudine, acuminatum, non attenuatum; segmentum 1^{um}. cupreo-viride: pedes fulvi; coxæ æneo-virides; femora obscure fusca; meso- et metapedum tibiæ apice basique, genua et tarsi flava, hi apice fulvi: alæ ferè limpidæ, minimè fulvescentes; maculis quæque 2 fuscis, quarum una ubi costam nervus attingit, altera sub stigma; squamulæ et nervi fulva, illæ anticè fusca; stigma pallidè fuscum, parvum. (Corp. long. $\frac{3}{4}$ lin.; alar. 1 lin.)

September; Isle of Wight.

ART. XLVI.—*Notice on the Entomological Peculiarities of Van Dieman's Land; being Extracts from a Letter by Thomas Winter, Esq. Communicated by WILLIAM SWAINSON, Esq.*

SIR,—Among the circumstances which evince that a more enlarged and philosophic spirit of inquiry has arisen in the minds of our entomologists, is their increased attention to *generals*, rather than an exclusive devotion to *particulars*. The animals of distant regions are not only sought after, but it has at length been found that great interest attaches also to the physical peculiarities of the districts they inhabit, as exercising a powerful influence on the local distribution both of genera and species. Unfortunately, however, this sort of information can only be acquired by personal research; and naturalists, in a foreign country, are usually so absorbed in the fascinating occupation of collecting, that they are generally unmindful of the localities and situations where their different acquisitions are procured. Hence, while our cabinets are daily augmented by new or undescribed species, our knowledge of entomological geography is quite in its infancy. With a view to stimulate the attention of such of our *brethren of the net*, who reside abroad, to circumstances of this nature, and at the same time to contribute something towards so desirable an object, I beg to inclose you the following short notices, written by my friend, Thomas Winter, Esq. now resident in Van Dieman's Land, a gentleman who devoted much of his leisure to entomological pursuits when in his native country,